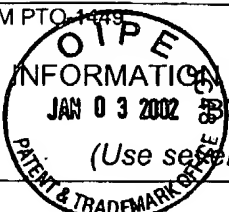


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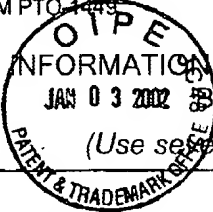
TECH CENTER 1600/2900 Sheet 1 of 1

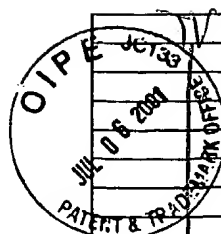
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<div style="text-align: center;">  <p><b>INFORMATION DISCLOSURE STATEMENT</b> BY APPLICANT (Use several sheets if necessary)</p> </div>				APPLICANT: Thomas J. Hosted, et al.			
				FILING DATE: January 11, 2001		GROUP: 1635	
<b>U.S. PATENT DOCUMENTS</b>							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
	AA						
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<b>FOREIGN PATENT DOCUMENTS</b>							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO
<i>TV</i> ↓	AD	JP 3139284 and English abstract from Micropatent Database	6/13/91	Japan	<div style="font-size: 2em;">X</div>	<div style="font-size: 2em;">X</div>	✓
	AE	WO 95/16046	6/15/95	PCT			✓
	AF	WO 97/13777	4/17/97	PCT			
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>							
	AG	Decker, H., (1996), FEMS Microbiology Letters 141:195-201					
	AH	Bechthold, A., (1999), Biorganic Chemistry, Diederichsen U. et al. Wiley-VCH Verlag GMBH, Weinheim, Germany, p. 313-321					
	AI	Malpartida, F., (1987), Nature, 325:818-821					
	AJ	Koch, C., (1996), International Journal of Systematic Bacteriology, 46(2):383-387					
	AK	International Search Report for International Patent Application No. PCT/US01/01187; Date of Completion: August 7, 2001					
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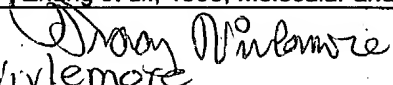
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FORM PTO 449		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO.: ID0983K US		SERIAL NO.: 09/758,759	
 <p>INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)</p>				APPLICANT: Thomas J. Hosted, et al.			
				FILING DATE: January 11, 2001		GROUP: 1635	
<b>U.S. PATENT DOCUMENTS</b>							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
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<b>FOREIGN PATENT DOCUMENTS</b>							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO
	AD	JP 3139284 and English abstract from Micropatent Database					
	AE	WO 95/16046					
	AF	WO 97/13777					
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>							
	AG	Decker, H., (1996), FEMS Microbiology Letters 141:195-201					
	AH	Bechthold, A., (1999), Biorganic Chemistry, Diederichsen U. et al. Wiley-VCH Verlag GMBH, Weinheim, Germany, p. 313-321					
	AI	Malpartida, F., (1987), Nature, 325:818-821					
	AJ	Koch, C., (1996), International Journal of Systematic Bacteriology, 46(2):383-387					
	AK	International Search Report for International Patent Application No. PCT/US01/01187; Date of Completion: August 7, 2001					
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EXAMINER				DATE CONSIDERED			



BU	McNicholas PM, 2000, <i>Antimicrob Agents Chemother.</i> 44: 1121-1126.	
BV	Merson-Davies LA, et al., 1994, <i>Mol Microbiol.</i> 13: 349-355.	
BW	Mertz JL, et al., 1986, <i>J Antibiot (Tokyo).</i> 39: 877-887.	
BX	Ninet L, F Benazet, et al., 1974, <i>Experientia.</i> 30: 1270-1272.	
BY	Oh and Chater, 1997, <i>J. Bacteriol.</i> 179:122-7	
BZ	Olano et al., 1998, <i>Molecular Gen. Genetics</i> 3:299-308	
CA	Paget E, et al., 1996, <i>J Bacteriol.</i> 178: 6357-6360.	
CB	Piepersberg W., et al., 1994, <i>Crit Rev Biotechnol.</i> 14: 251-285.	
CC	Pissowotzki K, et al., 1991, <i>Mol Gen Genet.</i> 231: 113-123.	
CD	Puar MS, et al., 1998, <i>J Antibiot (Tokyo).</i> 51: 221-224.	
CE	Rao et al., 1987, <i>Methods in Enzymology</i> 153:166-198	
CF	Reynolds, Proc. Natl. Acad. Sci. USA, 1998, 95:112744	
CG	Rodriguez E, et al., 1999, <i>Microbiology.</i> 145: 3109-3119.	
CH	Saitou N, et al., 1987, <i>Mol Biol Evol.</i> 4: 406-425.	
CI	Smith et al., 1997, <i>FEMS Microbiol. Lett.</i> 155:223-9	
CJ	Solenberg et al., <i>Chem Biol</i> , 1997, 4:195-202	
CK	Strohl et al., 1991, <i>J. Industr. Microbiol.</i> 7:163	
CL	Stutzman-Engwall KJ, et al., 1992, <i>J Bacteriol.</i> 174: 144-154.	
CM	Summers et al., 1997, <i>Microbiology</i> 143:3251-3262)	
CN	Tang L, et al., 1994, <i>Ann. N Y Acad. Sci.</i> 721:105-16	
CO	Trefzer A., et al., 1999, <i>Nat Prod Rep.</i> 16: 283-299.	
CP	Ueda et al., 1996, <i>Gene</i> 169:91-95	
CQ	van Wageningen AM, et al., 1998, <i>Chem Biol.</i> 5: 155-162.	
CR	Weinstein MJ; 1965, <i>Antimicrob Agents Chemother.</i> 5: 821-827.	
CS	Wilson et al., 1998, <i>Gene</i> 214:95-100	
CT	Wohlleben et al., 1994, <i>Acta Microbiol. Immunol. Hung</i> 41:381-9	
CU	Wolk CP, 1991, <i>Proc. Natl. Acad. Sci.</i> 88: 5355-5359.	
CV	Wright F, et al., 1992, <i>Gene.</i> 113: 55-65.	
CW	Ylihonko et al., 1996, <i>Microbiology</i> 142:1965	
CX	Zhang et al., 1998, <i>Molecular and General Genetics</i> 258:26-33	
EXAMINER	 Tracy Vixlemore	DATE CONSIDERED 7/7/04

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



FORM PTO-1449		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE			ATTY. DOCKET NO.: ID0983K	SERIAL NO.: 09/758,759
INFORMATION DISCLOSURE STATEMENT BY APPLICANT					APPLICANT: Thomas J. Hosted, et al.	
(Use several sheets if necessary)					FILING DATE: January 11, 2001	GROUP:

U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE	
TV	AA	5,190,870	3/2/93	Lipscomb et al.			10/8/90
	AB	5,190,871	3/2/93	Cox et al.			6/12/89
	AC	5,741,675	4/21/93	Friedmann et al.			6/7/96

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DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION		
AD	EP 350,341	5/16/89	EP			YES	NO
AE	WO 93/13663	7/22/93	PCT				
AF	WO 93/07904	4/29/93	PCT				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	
AG	Adrian PV, et al., 2000, <i>Antimicrob Agents Chemother.</i> 44: 732-738
AH	Altreuter and Clark, 1999, <i>Curr. Op. Biotech.</i> 10:130
AI	Baltz and Hosted, 1996, <i>TIBTECH</i> 14:245
AJ	Baltz et al., 1998, <i>Trends Microbiol.</i> 2:76-83
AK	Baltz, 1990, <i>Curr. Op. Biotech.</i> 1:12-20
AL	Bao et al., 1999, <i>J. Bacteriol</i> 181:4690-5
AM	Bao W, et al., 1999, <i>Biochemistry.</i> 38: 9752-9757.
AN	Beck et al., 1990, <i>European Journal of Biochemistry</i> 192:487-498
AO	Becker A, et al., 1993, <i>Mol Gen Genet.</i> 241: 367-379.
AP	Brautaset T, et al., 2000, <i>Chem Biol.</i> 7: 395-403.
AQ	Buttner et al., 1990, <i>J. Bacteriol.</i> 172:3367-78
AR	Cheng-Cai, 1996, <i>Molecular Microbiology</i> 20:9-15
AS	Cundliffe, 1989, <i>Annual Review of Microbiology</i> 43:207-33
AT	Distler J, et al., 1987, <i>Nucleic Acids Res.</i> 15: 8041-8056.
AU	Donadio et al., 1993, <i>Proc. Natl. Acad. Sci. U.S.A.</i> 90:7119-23
AV	Fath et al., 1993, <i>Microbial Reviews</i> 57:995-1017
AW	Faust B, D Hoffmeister, et al., 2000, <i>Microbiology.</i> 146: 147-154.
AX	Fernandez et al., 1996, <i>Molecular and General Genetics</i> 251:692-698
AY	Fernandez et al., 1998, <i>Journal of Bacteriology</i> 18:4929-4937
AZ	Flett F, et al., 1997, <i>FEMS Microbiol Lett.</i> 155: 223-229.
BA	Foster DR, 1999, <i>Pharmacotherapy.</i> 19: 1111-1117.
BB	Gaisser et al., 1997, <i>Journal of Bacteriology</i> 179:6271-6278
BC	Ganguly AK, et al., 1975, <i>J Am Chem Soc.</i> 97: 1982-1985
BD	Ganguly AK, et al., 1979, <i>J Antibiot (Tokyo).</i> 32: 1213-1216.
BE	Garbe TR, et al., 1994, <i>Microbiology.</i> 140: 133-138.
BF	Guilfoile et al., 1991, <i>Proc. Natl. Acad. Sci. USA</i> 88:8553-8557
BG	Hanlon et al., 1997, <i>Molecular Microbiology</i> 23:459-71
BH	Hopwood, et al., 1990, <i>Annual Review of Microbiology</i> 24:37-66
BI	Hosted and Baltz, 1997, <i>J. Bacteriol.</i> 179:180-6
BJ	Hung-wen et al., 1994, <i>Annual Review of Microbiology</i> 48:223-56
BK	Hutchinson CR, et al., 1993, <i>Antonie Van Leeuwenhoek.</i> 64: 165-176.
BL	Hutchinson et al., 1995, <i>Annual Review of Microbiology</i> 49:201-238
BM	Ikeda H, 1999, et al., <i>Proc Natl Acad Sci U S A.</i> 96: 9509-9514.
BN	Johnson et al., 1998, <i>Current Opinion Chem. Biol.</i> 5:642-9
BO	Kim et al., 1995, <i>J. Bacteriol.</i> 77:1202
BP	Lichenstein HS, et al., 1990, <i>Gene.</i> 88: 81-86.
BQ	Liu and Thorson, 1994, <i>Annu. Rev. Microbiol.</i> 48:223
BR	Liu W, et al., 2000., <i>Antimicrob Agents Chemother.</i> 44: 382-392.
BS	Madduri et al., 1998, <i>Nature Biotechnology</i> , 16:69-74
BT	McNicholas et al., Abstract C-846, ICAAC, San Francisco, CA, 1999